

North Carolina Department of Environment and Natural Resources

ECOSYSTEM ENHANCEMENT PROGRAM QUARTERLY REPORT

January 1, 2004 - March 31, 2004





This quarterly report is intended to satisfy reporting requirements of the Memorandum of Agreement entered into by the North Carolina Department of Environment and Natural Resources (NCDENR), the North Carolina Department of Transportation (NCDOT), and the United States Army Corps of Engineers (USACE), Wilmington District, on July 22, 2003, for providing compensatory mitigation through the NCDENR Ecosystem Enhancement Program to offset impacts to waters and wetlands due to activities authorized by Clean Water Act permits.







Ecosystem Enhancement Program Quarterly Report January 1 – March 31, 2003

Table of Contents

		Page
i.	Introduction	4
ii.	Report Structure	4
	Section 1: Projected Impacts Table 1: Projected 7-year impacts	5 5
	Section 2: Mitigation Project Status Table 2: Restoration Site Status Table 3: High Quality Preservation Site Status Table 4: Restoration Asset Credits Available Table 5a: Preservation Assets Available this quarter Table 5b: Cumulative Preservation Assets Map of EEP Preservation Sites	15 16 23 26 29 30 31
	Section 3: Project Accounting Table 6: Mitigation Projects Debited Table 7: Net Remaining Preservation Mitigation	32 32 33

i. Introduction

This report covers the period beginning January 1, 2004 through March 30, 2004. This is the third quarterly report of the Transition Period. The Transition Period allows for conversion from the current Wetlands Restoration Program (WRP) and NCDOT mitigation operations and methods to Ecosystem Enhancement Program (EEP) watershed based operations and methods that will provide mitigation prior to impacts. During transition, the EEP will provide compensatory mitigation at a ratio requiring at least 1:1 restoration. High quality preservation and enhancement may be accepted to supplement the 1:1 restoration requirement. Preservation is provided at the ratio of 10: 1 (for projects that do not have restoration at the time of permit; restoration for these impacts will be provided at the end of transition). Complete transition guidelines and requirements are found in Section IX of the MOA. The transition period will end on July 22, 2005.

ii. Report Structure

This report provides the following information as required in the MOA Section VII, Program Review:

- 1. Projected impacts by amount, type, and eight digit Cataloging Unit (CU) based on the 7-year anticipated impacts.
- 2. Mitigation sites acquired by amount, type, and eight-digit CU based on the 7-year anticipated impacts.
- 3. Mitigation projects that are complete and function, or otherwise available for use pursuant to Paragraph VI.B, of the MOA, by amount, type, and eight-digit CU and implementation status.
- 4. Mitigation projects that were debited by USACE permit Action ID, amount, type, and eight-digit CU.
- 5. Net remaining mitigation by amount, type, and eight-digit CU for each complete and function mitigation project.

The report is organized into three main sections.

Section 1 Projected Impacts. Table 1 addresses item number 1 above.

Section 2 Mitigation Project Status.

This section addresses items numbered 2 and 3 above and is organized in the following manner:

Table 2: Restoration Site Status as of March 31, 2003

Table 3: Preservation Site Status as of March 31, 2003

Table 4: Restoration Assets Available

Table 5a: Preservation Assets Available this quarter

Table 5b: Cumulative Preservation Assets

Section 3 Project Accounting.

This section addresses items numbered 4 and 5 above and is organized in the following manner:

Table 6: Mitigation Projects Debited by USACE permit Action ID

Table 7: Net Remaining Preservation Mitigation

SECTION 1: PROJECTED IMPACTS

Projected Impacts based on 7-year anticipated impacts

The following table comprises the most recent 7-year impact projections for each river basin and CU forecasted by NC DOT and provided to EEP in February 2004. This table supersedes Table 1 provided within the first two quarterly reports.

Table 1: Projected Impacts BROAD RIVER BASIN

	STREA	M IMPACTS	WETLAND IMPACTS
CATALOGING UNIT		Feet	Acres
<u>03050105</u>			
20	04	0	0
20	05	232	3
20	06	349	0
20	07	7,931	30
20	08	4,846	4
20	09	11,542	70
20	10	0	0

CAPE FEAR RIVER BASIN

		STREAM IM	IPACTS	WETLA	ND IMPACTS
CATALOGING UNIT		Feet	t '		Acres
03030001					
	2004	1,48	80		1
	2005	0			2
	2006	0			0
	2007	0			0
	2008	0			0
	2009	0			0
	2010	1,67	74		4
03030002					
	2004	4,23	37		2
	2005	3,94	16		1
	2006	4,57	75		3
	2007	7,55	56		32
	2008	15,2	200		60
	2009	15,9	908		38
	2010	8,28	31		24
03030003					
	2004	18			0
	2005	4,73	35		3
	2006	9,57	73		4
	2007	0			0
	2008	14,4	114		51
	2009	4,17	73		30
	2010	1,73	35		3
<u>3030004</u>					
	2004	1,25	50		1
	2005	4,50)2		10
	2006	1,18	32		0
	2007	26,6	565		164
	2008	25,5	561		208
	2009	0			0
	2010	511			0

		STREAM IMPACTS	WETLAND IMPACTS
CATALOGING UNIT		Feet	Acres
03030005			
2	2004	0	0
2	2005	965	4
2	2006	0	0
2	2007	0	0
2	8008	0	0
2	2009	18,663	262
2	2010	0	0
03030006			
2	2004	0	0
2	2005	460	2
2	2006	50	2
2	2007	0	0
2	8008	0	0
2	2009	8,437	42
2	2010	0	0
03030007			
2	2004	59	0
2	2005	245	2
2	2006	150	1
2	2007	0	0
2	2008	0	0
2	2009	0	0
2	2010	5,134	19

CATAWBA RIVER BASIN

CATALOGING UNIT	STREAM IMPACTS Feet	WETLAND IMPACTS Acres
<u>03050101</u>		
2004	479	1
2005	27,297	5
2006	229	0
2007	15,993	29
2008	2,077	0
2009	0	O
2010	0	0
03050102		
2004	30	0
2005	0	0
2004	0	0
2005	0	0
2006	2,680	23
2007	0	0
2008	0	0

03050103			
	2004	0	0
	2005	0	0
	2004	3,500	0
	2005	10,587	52
	2006	13,014	64
	2007	0	0
	2008	4,410	18

CHOWAN RIVER BASIN

CATALOGING UNIT		STREAM IMPACTS Feet	WETLAND IMPACTS Acres
03010203		rect	Acres
20	004	0	0
20	005	0	0
20	006	0	0
2	007	0	218
20	800	0	0
2	009	0	0
2	010	8,769	79
<u>03010204</u>			
2	004	0	0
2	005	0	0
2	006	0	0
2	007	0	0
2	800	0	0
2	009	0	0
29	010	0	0
		-	

FRENCH BROAD RIVER BASIN

		STREAM IMPACTS	WETLAND IMPACTS
CATALOGING UNIT		Feet	Acres
06010105			
<u> </u>	2004	156	0
	2005	1,168	2
	2006	7,412	6
	2007	457	0
	2008	16,257	3
	2009	2,099	0
	2010	15,245	3
<u>06010106</u>		,	
	2004	84	0
	2005	29	0
	2006	554	0
	2007	292	0
	2008	2,848	0
	2009	731	0
	2010	0	0

FRENCH BROAD RIVER BASIN

		STREAM IMPACTS	WETLAND IMPACTS
CATALOGING UNIT		Feet	Acres
06010108			
2	2004	0	0
2	2005	140	0
2	2006	0	0
2	2007	34,213	0
2	2008	0	0
2	2009	0	0
2	2010	5,119	1

HIWASSEE RIVER BASIN

CATALOGING UNIT	STREAM IMPACTS Feet	WETLAND IMPACTS Acres
06020002		
2004	680	1
2005	8,385	0
2006	0	0
2007	16,198	8
2008	5,231	0
2009	0	0
2010	0	0

LITTLE TENNESSE RIVER BASIN

		STREAM IMPACTS	WETLAND IMPACTS
CATALOGING UNIT		Feet	Acres
<u>06010202</u>			
	2004	197	0
	2005	0	0
	2006	26,272	0
	2007	0	0
	2008	0	0
	2009	0	0
	2010	15,928	0
06010203			
00010205	2004	0	0
	2005	44	0
	2006	0	0
	2007	0	0
	2008	0	0
	2009	0	0
	2010	0	0
		-	-

LITTLE TENNESSE RIVER BASIN

CATALOGING UNIT		STREAM IMPACTS Feet	WETLAND IMPACTS Acres
06010204			
	2004	0	0
	2005	0	0
	2006	0	0
	2007	0	0
	2008	0	0
	2009	0	0
	2010	0	0
LUMBER RIVER BASIN	ili e de de la deservación de la defensión de		
		STREAM IMPACTS	WETLAND IMPACTS
CATALOGING UNIT		Feet	Acres
03040203		roct	Acres
	2004	0	0
	2005	8,239	40
	2006	1,742	40
	2007	0	0
	2008	0	0
	2009	0	0
	2010	4,826	29
03040204		,	
	2004	0	0
	2005	0	0
	2006	0	1
	2007	0	0
	2008	0	0
	2009	0	0
	2010	0	0
<u>03040206</u>			
	2004	0	0
	2005	275	1
	2006	80	0
	2007	0	0

3,844

NEUSE RIVER BASIN

CATALOGING UNIT 03020201	STREAM IMPACT Feet	S WETLAND IMPACTS Acres
20	04 0	3
20	05 13,799	32
20		271
20		8
20		0
20	09 0	0
20	10 1,511	0
03020202	,	
20	04 0	0
20		0
20	06 0	0
20	07 13,332	82
20		113
20		28
20		0
03020203		
20		0
	05 445	5
	06 0	0
20		0
	08 0	0
	09 0	0
	10 0	0
<u>03020204</u>		
	04 321	` 4
20	05 645	32
	06 1,030	30
	07 0	0
	08 10,241	180
	09 866	77
20	10 0	0

NEW RIVER BASIN

CATALOGING UNIT 05050001	STREAM IMPACTS Feet	WETLAND IMPACTS Acres
2004	119	0
2005	160	0
2006	120	0
2007	364	0
2008	9,029	4
2009	1,026	0
2010	9,477	2

PASQUOTANK RIVER BASIN

	STREAM IMPACTS	WETLAND IMPACTS
CATALOGING UNIT	Feet	Acres
<u>03010205</u>		
2004	150	1
2005	60	0
2006	8,610	84
2007	281	3
2008	0	0
2009	926	17
2010	8,361	371

ROANOKE RIVER BASIN

CATALOGING UNIT		STREAM IMPACTS Feet	WETLAND IMPACTS Acres
03010102		rect	Acres
03010102	2004	0	0
	2005	0	o 0
	2006	0	0
	2007	Ö	ő
	2008	0	Ö
	2009	ő	ő
	2010	0	0
03010103	2010	v	Ŭ
03010103	2004	290	0
	2005	957	0
	2006	0	0
	2007	0	0
	2008	1,559	2
	2009	0	0
	2010	0	0
03010104			
	2002	160	1
	2003	360	0
	2004	110	0
	2005	5,129	13
	2006	0	0
	2007	0	0
	2008	0	0
<u>03010106</u>			
	2004	0	0
	2005	0	0
	2006	0	0
	2007	0	0
	2008	0	0
	2009	0	0
	2010	0	0

Roanoke River Basin continued next page.

CATALOGING UNIT 03010107	STREAM IMPACTS Feet	WETLAND IMPACTS Acres
2004	130	0
2005	613	131
2006	0	1
2007	0	0
2008	0	0
2009	0	1
2010	2,699	0

TAR-PAMLICO RIVER BASIN

CATALOGING UNIT 03020101		STREAM IMPACTS Feet	WETLAND IMPACTS Acres
00000101	2004	2,368	0
	2005	1,271	2
	2006	1,249	$\stackrel{2}{0}$
	2007	5,082	1
	2008	769	0
	2009	11,055	69
	2010	686	0
03020102	2010	000	O .
00000102	2004	56	0
	2005	108	7
	2006	175	1
	2007	90	8
	2008	0	0
	2009	0	0
	2010	1,667	7
03020103	2010	1,007	<i>,</i> ·
05020105	2004	100	0
	2005	247	8
	2006	265	0
	2007	1,921	12
	2007	0	0
	2009	0	0
	2010	19,660	86
03020104	2010	19,000	80
03020104	2004	0	0
	2004	145	0
	2005	90	0
	2007	2	1
	2007	0	0
	2008	0	0
	2010	0	0
03020105	2010	V	U
03020103	2004	1,178	0
	2004	0	2
	2005	0	0
	2007	0	2
	2007	0	0
	2008		
		1,026	1
	2010	0	0

WATAUGA RIVER BASIN

		STREAM IMPACTS	WETLAND IMPACTS
CATALOGING UNIT		Feet	Acres
<u>06010103</u>			
	2004	122	0
	2005	140	1
	2006	7,101	2
	2007	1	1
	2008	0	0
•	2009	8,216	5
	2010	0	0

WHITE OAK RIVER BASIN

CATALOGING UNIT		STREAM IMPACTS Feet	WETLAND IMPACTS Acres
03030001		1 000	110100
2	2004	0	0
	2005	147	0
2	2006	0	0
2	2007	0	0
	2008	0	0
	2009	0	0
	2010	0	0
<u>03020106</u>			
	2004	694	28
	2005	0	0
	2006	0	0
	2007	0	0
	2008	0	0
	2009	0	0
2	2010	9,762	166

YADKIN RIVER BASIN

		STREAM IMPACTS	WETLAND IMPACTS
CATALOGING UNIT		Feet	Acres
<u>03040101</u>			
	2004	0	0
	2005	2,996	1
	2006	8,127	1
	2007	18,916	17
	2008	22,048	1,314
	2009	8,385	1
	2010	18,141	32

Yadkin River Basin continued next page

CATAI	LOGING UNIT 03040102		M IMPACTS Feet	WETLA	AND IMPACTS Acres
	03040102	2004	1,821		0
		2005	3,723		1
		2006	149		0
		2007	1,381		0
		2008	2,527		2
		2009	9,639		13
		2010	0		0
	03040103	2010	O		· ·
	05010105	2004	167		0
		2005	7,578		6
		2006	8,988		16
		2007	1,811		1
		2008	10,524		12
		2009	0		0
		2010	0		0
	03040104	2010	U		O
	03040104	2004	0		0
		2004	23		0
		2005	232		0
		2007	0		0
			0		
		2008			0
		2009	7,938		7
	02040105	2010	3,118		12
	03040105	2004	0.007		10
		2004	9,986		10
		2005	2,306		0
		2006	14,774		50
		2007	3,195		8
		2008	27,025		65
		2009	4,593		1
		2010	7,693		39
	02040201				
	03040201	2004	0		
		2004	0		0
		2005	207		1
		2006	200		0
		2007	454		0
		2008	10,369		0
		2009	0		0
		2010	0		0
			 ·····	***************************************	****
	<u>Totals</u>	2024	06.000		m.c.
		2004	26,333		56
		2005	96,590		302
		2006	119,901		522
		2007	179,917		791
		2008	201,154		2,106
		2009	120,161		662
		2010	151,709		896
- له مسموم په رسود			895,709		5,334
End of Table 1					

SECTION 2: MITIGATION PROJECT STATUS

Section 2 addresses the updated status of Ecosystem Enhancement Program restoration and preservation mitigation projects. Table 2 lists restoration project status by river basin and CU. Table 3 lists high quality preservation projects by eco-region.

Table 2: Restoration Site Status as of March 31, 2003

Table 2 lists ecosystem restoration, enhancement, and preservation projects that the EEP has available to meet the requirements of compensatory mitigation. The units of mitigation provided in the table are the total amount of mitigation available to a particular project over time. Where credit release schedules have been established, the EEP will debit from these project accordingly. The units of mitigation for any project may change from the time of this report as additional design and monitoring information is available to the EEP or as mitigation units are refined as per the goals set forth in the EEP MOA.

Table 2 is divided into four sections:

Section 1 is a list of projects initiated by the Department of Transportation's Project Development and Environmental Analysis Branch prior to the inception of the EEP. These projects are in various stages of implementation. The EEP staff is currently managing these projects and will utilize their mitigation credits according to the guidelines of the Tri-party MOA.

Section 2 is a list of projects developed and constructed by the DOT. The available credit for these projects have been verified by the U.S. Army Corps of Engineers and the DOT. This table presents the total amount of available credit for a particular project. Projects that have credit release schedules will be debited accordingly.

Section 3 is a list of projects that were initiated by the DOT as full delivery projects. These project are currently under contract with the DOT but are available for debiting for the purposes of the EEP, as determined by credit release schedules.

Section 4 is a list of projects that were initiated and developed by the staff of the NC Department of Environment and Natural Resource's Wetlands Restoration Program and the Ecosystem Enhancement Program. These projects have been acquired as defined by the 1998 MOA between the USACE and the DENR and by the EEP MOA.

Table 2: Restoration Site Status as of March 31, 2003

Project Name	Basin	8-digit CU	Stream Restoration	Stream Enhancement I	Stream Enhancement II	Stream Preservation	Riverine Restoration	Riverine Creation	Riverine Enhancement	Riverine Preservation	Nonriverine Restoration	Nonriverine Creation	Nonriverine Enhancement	Nonriverine Preservation	Coastal Marsh Restoration	Coastal Marsh Creation
Section 1:																
Back Creek															- 1	
Church	Yadkin	03040105	2,800												i	
Brock	Neuse	03020204		2,200												
Bush Island	Lumber	03040203				2)	75.0				100.0					
Deep Creek Mitigation Rank Vadkin	Vadkin	03040101	810				7 5 1	1)		Λ						
Fisher River		- 1														1
ank	Yadkin	03040101	475			N	25.5 8	8.1 0	0.9							
Grove Creek	Cape Fear	03030007				6	6.0 1	10.2	ယ	352.0 3	3.9	7	7.6			
Jalo	Neuse	03020201	2,500													
Mill Branch	Lumber	03040206	3,000													
Rich Fork Creek Yadkin	Yadkin		3,000			1	13.1		2	.0						
Roseboro Site	Cape Fear		2,200													
Rowan Branch	Cape Fear	03030006				1	15.0				14.0					
							-						_			
Section 2:																
Abbott	Neuse	03020201	584	,												
Afton Run	Yadkin	03040105	261													
~	Yadkin		3,773	- Address to												
:	Yadkin					5	د ٥	ىر	<i>γ</i>						1	
Farm	Pasquotank	03010205					196.3			49.7						40.
Barra Farms I	Cape Fear	03030006								-	160.5					
Blue Mitigation	Cape Fear	03030004							1	120.4						

	S	ᇤ	G B	В	В	Ö	SΩ	ζΩ	٦	Ę	ΞŢ	Ď	ַק	Ω	Z E	Ω.	Ω	SV	Ω	Ha	He	Hc	SW	Q S
Project Name	Site	Brock Site	Brock Site (wetland)	Bull Farm	Bush	Caviness	Company Swamp	Croatan	Dale Tract	Deaton	Dismal Swamp	Dowd Dairy	Dutchman's	Creek	Finley- McMillan	Gibson Pond	Great Dismal	Swamp	Grimesland Site	Haws Run	Helms	Horsepen Creek	Huskanaw Swamp	оштр
Basin		Neuse	Neuse	Cape Fear	Lumber	Cape Fear	Roanoke	4	Cane Fear	Cone Fear				Neuse	Cape Fear	Yadkin		Pasquotank	e Tar-Pamlico	Cape Fear	Yadkin	k Cape Fear	Tar-Pamlico	1 ar-Familico
8-digit CU		03020204	03020204	03030006	03040206	03030003	03010107		03030005	02020002	03010205	03030005		03020201	03030007	03040201		03010205	03020103	03030007		03030002	03020103	03020103
Stream Restoration		1,596				П	-			202											342			
Stream Enhancement I																								
Stream Enhancement II																								
Stream Preservation									-	_		5.8	,	0.0					49.0	11.8		1.8		
Riverine Restoration									10.0		2	∞		0					0.0	· ∞		8	···	-
Riverine Creation																				7.7			5	K.
Riverine Enhancement								'			20.8									25.0	Į		2	23.6
Riverine Preservation			1.7				557.4		:							36.7			348.0	171.0				
Nonriverine Restoration					650.0				1762		2528	501.0		1.0				553.0	8	19.4			-	
Nonriverine Creation									1					5.0					80.0	- 1				
Nonriverine Enhancement				2.2					170	,	0									99.0 1				
Nonriverine Preservation											010				398.0			***************************************		11.0				
Coastal Marsh Restoration																								
Coastal Marsh Creation																			:					
Coastal Marsh Enhancement																								

Tulula	Stallings	Speight Branch (wetland)	Sparta Bog	Creek	South Buffalo	Site	Smith Creek	(stream)	Shepherd's Tree	Sheperd's Tree	Scuppernong	Sawmill	Sandy Creek	Mud Creek	Mildred Woods	McLeansville	Property	McIntvre	Mashoes Road	(Phase I)	Marks Creek	Long Creek	Lengyel	Key Branch	Juniper Bay	Project Name
Little Tennessee	Neuse	Neuse	New	Cape Fear		Cape Fear		Yadkin		Yadkin	Pasquotank	Neuse	Cape Fear	French Broad	Tar-Pamlico	Cape Fear	Cape Fear		Pasquotank	Neuse	Carawoa	Catawha	Neuse	Yadkin	Lumber	Basin
06010204	03020204	03020201	05050001	03030002		03030007		03040102		03040102	03010205	03020202	03030003	06010105	03020103	03030002	03030005		03010205	03020201	00000100	03050103	03020202	03040104	03040203	8-digit CU
4,683	5,920							3,238																		Stream Restoration
								1,429															********			Stream Enhancement I
																										Stream Enhancement II
				4		0							()							.			*****			Stream Preservation
				4.0		0.0				19.8 9	18.0		5.7		129.0	6	12.3			2.1		1.6		18.4		Riverine Restoration
		1.0								94.1 8		0		1		6.0										Riverine Creation
		1.2		2						.0		0.3		15.6	∞									w		Riverine Enhancement
				2.2											.0					11.0				3.6		Riverine Preservation
			11.9					:							23.0										697.4	Nonriverine Restoration
					~~~~																					Nonriverine Creation
							*******																			Nonriverine Enhancement
					·														29.3							Nonriverine Preservation
																	37.3						5.6			Coastal Marsh Restoration
																										Coastal Marsh Creation
												0.2					79.9									Coastal Marsh Enhancement

	O H	◁	<2	<u> </u>	S		<u> </u>	100	20	0	טי	S	S	Q	70	ı la	ات ا	चि	田	) H	710	Ω	田
Project Name	Tulula Bog (wetland)	Wiggins Mill	Wiggins Mill	(wetland)	Section 3:	City Pond	Gregory	(stream)	Gregory (wetland)	Open Springs	Pott Creek II	South Fork	Stonebridge		Section 4:	Elk Shoals	FCWR03	Four Mile Creek	Haw River	Troublesome	Zack's Fork	Creek	Helms
Basin	Little Tennessee	Neuse		Neuse		Yadkin	!	lar-Pamlico	Tar-Pamlico	Cape Fear	Catawba	Catawba	Cape Fear		Chil	Catawba	Tar-Pamlico		Cape Fear	Can Fine	4	Catawba	Yadkin
8-digit CU	06010204	03020203		03020201		03040201	)	03020102	03020102	03030003	03050102	03050102	03030003						03030002	02020002	000000000000000000000000000000000000000	03050101	03040105
Stream Restoration		247				10,667	1	0,500		4,520	10,054	11,260	6,240		6 100	6,100		2,950				3,900	2,300
Stream Enhancement I																							
Stream Enhancement II																							
Stream Preservation																							
Riverine Restoration	47.8			12.7			*		75.0							3	30.0		12.0				
Riverine Creation																							
Riverine Enhancement				6.7																			
Riverine Preservation														_						2000			
Nonriverine Restoration																				<del></del>			
Nonriverine Creation																							
Nonriverine Enhancement							··· 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																
Nonriverine Preservation																				NA Clause Visitor do serv			
Coastal Marsh Restoration																							
Coastal Marsh Creation																							
Coastal Marsh Enhancement																							

Goldsboro Housing Authority	Gillespie Golf Course	Freedom Park	Forest Hills	Ellerbee Creek	Cross Creek	Clear Creek	Cheviot Hills	Chavis Park	Charles Creek	Cato	Creek	Burnt Mill	Bugaboo Creek	Brushy Fork	Brush Creek	Brown Branch	Park	Brown Bark	Billy's Creek	Benbow Park	Beaver Creek	Creek	Bear Swamp	Project Name
Neuse	Cape Fear	Catawba	Cape Fear	Neuse	Cape Fear	French Broad	Neuse	Neuse	Pasquotank	Yadkin	Cape Fear		Yadkin	Yadkin	New	Catawba	Cape Fear		Tar-Pamlico	Cape Fear	Yadkin	Tar-Pamlico		Basin
03020201	03030002	03050103	03030002	03020201	03030004	06010105	03020201	03020201	03010205	03040105	03030007		03040101	03040101	05050001	03050101	03030002		03020101	03030002	03040101	03020101		8-digit CU
2,000		4,200	689	6,000	2,400	1,500	3,000	2,200		2,200			6,600	7,400	1,350	5,400	2,748		1,400	1,752	4,300	1,500		Stream Restoration
	6,304														490									Stream Enhancement I
															1750									Stream Enhancement II
									2		0													Stream Preservation
				ļ					2.0		0.8													Riverine Restoration
									1.0															Riverine Creation
									1.0															Riverine Enhancement
- DF TREE																							~1200000	Riverine Preservation
																								Nonriverine Restoration
																								Nonriverine Creation
																			~~~					Nonriverine Enhancement
																								Nonriverine Preservation
																								Coastal Marsh Restoration
																								Coastal Marsh Creation
																								Coastal Marsh Enhancement

Stillhouse Creek Neuse	Creek	Smith/Austin	Silas Creek	Sandy Creek	Richland Creek	Reedy Branch	Purlear Creek	Price Park	Golf Course	Prestonwood	Payne Dairy	North River	Creek	Middle Swamp	Louisburg	Knobs Creek	Kentwood Park	Creek	Jumping Run	Howell Woods	Creek	Hominy Swamp	Hillsdale Park	High Vista	Haw River	State Park	Hammock's	Project Name
Neuse	Neuse		Yadkin	Cape Fear	Neuse	Cape Fear	Yadkin	Cape Fear	Neuse	-	Catawba	White Oak	Lumber		Tar-Pamlico	Pasquotank	Neuse	White Oak		Neuse	Neuse		Cape Fear	French Broad	Cape Fear	White Oak		Basin
03020201	03020201		03040101	03030002	03020201	03030002	03040101	03030002	03020201	***************************************	03050101	03020106	03040203		03020101	03010205	03020201	03020106		03020201	03020203		03030002	06010105	03030002	03020106	4	8-digit CU
1,500	8,000		4,500		300	2,400	13,000	1,776	4,100		5,177		2,800		2,000		1,400				2,232		5,963	3,100				Stream Restoration
	2,000			3,000							470													400				Stream Enhancement I
											1,350														;			Stream Enhancement II
				3			2																					Stream Preservation
				3.2			0.0						6.0					4.4		20.0								Riverine Restoration
										•																		Riverine Creation
							2.0													80.0								Riverine Enhancement
																19.0				39.0					80.0			Riverine Preservation
												250.0																Nonriverine Restoration
																												Nonriverine Creation
																												Nonriverine Enhancement
																												Nonriverine Preservation
															-													Coastal Marsh Restoration
																			~									Coastal Marsh Creation
																												Coastal Marsh Enhancement

1)

End of Table 2.	Goose Creek	Mill Creek	Branch-Burnt	Mineral Springs	Wike Property	Whitelace Creek Neuse	Wells Creek	Warrior Creek	Horse Creek	Branch	Trout Cove	Suck Creek	(Phase II)	Sturgeon City	(Phase I)	Sturgeon City	Stone Mountain Yadkin	Project Name
le 2.	Neuse	Cape Fear		lgs	y Catawba	ek Neuse	Cape Fear	k Yadkin	Neuse	Hiwassee		Cape Fear	White Oak		White Oak	7	ain Yadkin	Basin
	03020201	03030005			03050101	03020202	03030002	03040101	03020201	06020002	#1# vi A2	03030003	03030001		03030001	•	03040101	8-digit CU
	3,000	2,500	***************************************	***************************************	2,400	8,000	6,000	9,200	6,000	3,900		3,000					7,000	Stream Restoration
					~													Stream Enhancement I
					800.0												2590	Stream Enhancement II
		200.0				K3										70 - 111 - 140		Stream Preservation
						20.0												Riverine Restoration
														***************************************				Riverine Creation
																		Riverine Enhancement
																		Riverine Preservation
																		Nonriverine Restoration
											TRANSCO MAN							Nonriverine Creation
														*****************************				Nonriverine Enhancement
																		Nonriverine Preservation
													2.5		3.5			Coastal Marsh Restoration
											***************************************							Coastal Marsh Creation
																		Coastal Marsh Enhancement

High Quality Preservation Site Status as of March 31, 2003

Table 3, lists high quality preservation sites that are being acquired or have been acquired this quarter, by amount, type, and eight-digit CU based on the 7-year anticipated impacts and also shows projects that were initiated in a previous quarter and whose status has changed this quarter. This table is also organized by eco-region to correlate with preservation accounting.

Table 3 Site Status Definitions:

Funded: funds approved by Board of

Transportation

Option: option to purchase obtained by State

Property Office

Approved: site reviewed favorably by

USACE

Acquired: site purchased or easement obtained by State Property Office

Table 3: Preservation Site Status

Eco-region	River Basin	Cataloging Unit	Site Name	Preservation Wetland Assets (ac)	Preservation Stream Assets (ft)	Site Status
Northern Outer Coastal Plain	Roanoke	3010107	Roquist Pocosin	267 (number corrected)	0	Funded, Option, Approved, Acquired
	Total			267	0	
Southern Outer Coastal Plain	White Oak	3030001	Hancock Timber /Hwy 50	922	54,120	Funded, appraisals underway
Northern Inner Coastal Plain	Neuse	3020201	Letlones / Massengill	0	19,750	Funded
	Total			***************************************	19,750	
Southern Inner Coastal Plain	No activity this quarter					
Central Piedmont	Cape Fear	3030002	Eno River State Park / Wilderness	0	19,787	Funded, Option, Approved,
	Neuse	3020201	Eno River State Park / Poplar Ridge	0	5,400	Acquired Funded, Option, Approved,
	Neuse	3020201	Eno River / Cabe's Ford	0	2,203	Acquired Funded

Eco-region	River Basin	Cataloging Unit	Site Name	Preservation Wetland Assets (Acres)	Preservation Stream Assets (Feet)	Site Status*
Central Piedmont continued	Cape Fear	3030002	Haw River / Duke Forest	0	32,000	Funded, Option, Approved,
	Cape Fear	3030002	Haw River State Park / Phillips	0	3,628	Acquired Funded, Option, Approved, Acquired
	Tar- Pamlico	3020101	Allen	26	26300	Funded, Option, Acquired
	Yadkin	3040101	Len's Knob / Little Mountain	0	42,000	Funded, Option, Approved, Acquired
	Cape Fear	3030003	White Pines / Newton	0	1,950	Funded, Option
	Cape Fear	3030003	White Pines / Hearn	0	6,950	Funded, Approved
	Total			26	140,218	
Southern Piedmont	Lumber	3040203	Drowning Creek / Camp Mackall	575	15,679	Funded, Option, Approved, Secured
	Yadkin	3040104	Denson's Creek	0	3,725	Funded
	Catawba	3050101	Rankin / Gaston County	0	18,300	Funded, Option, Acquired
	Lumber	3040204	Drowning Creek II / Rankin	0	24,341	Funded, Approved, Appraisals underway
	Total:			575	62,045	
Northern Mountains	French Broad	6010108	Roan Massif / Bruchon	0	5,550	Funded, Option, Approved
	Yadkin	3040101	Mingo Tract	0	73,000 (shared with CNMTF)	Funded, Approved,
	Total:			0	78,550	Acquired

Eco-region	River Basin	Cataloging Unit	Site Name	Preservation Wetland Assets (Acres)	Preservation Stream Assets (Feet)	Site Status*
Southern Mountains	Little Tennessee	6010202	Needmore Tract	0	96,446	Funded, Approved, Acquired
	Little Tennessee	6010202	Lost Bridge	0	10,650	Funded, Acquired
	Total:			0	107,096	

End of Table 3

Restoration Assets Available

Table 4 shows the current Net Restoration Assets that EEP has available for debiting by river basin and cataloging unit (CU). EEP's Net Restoration Assets are calculated by taking the Total EEP Assets (listed in Table 2) and subtracting the amounts already debited to meet the In Lieu Fee Program and the EEP MOA requirements. No restoration assets have been debited thus far to meet EEP MOA restoration requirements. To date, only high quality preservation sites (Table 3) have been used for permitting DOT transportation projects under the EEP MOA agreement. The 1:1 restoration component for these permits will be addressed in accordance with the timeline and protocols set forth in the EEP MOA.

Table 4 lists the assets by "restoration credits." The restoration amounts for each asset was converted to restoration credits by using the following restoration ratios: Stream Restoration 1:1, Stream Enhancement I 2:1, Stream Enhancement II 2.5:1, Wetland Restoration 1:1, Wetland Creation 2:1, Wetland Enhancement 3:1. EEP inherited and undebited NCWRP and NCDOT preservation sites are not included in Table 4.

Table 4: Restoration Asset Credits Available

Basin	8-digit CU	Net Stream Restoration Credits	Net Riverine Restoration Credits		Net Coastal Marsh Credits
Broad		-800	0.00	0.00	0.0
	03050105**	-800**	0.00	0.00	0.00
Cape Fear		11266	54.72	879.93	63.93
	03030002	C		0.00	e facilità de la materia de deserva de la facilità de la compansión de la
	03030003	11266	5.69	0.00	0.00
	03030004	C	0.00	0.00	0.00
	03030005	C	18.10	633.22	63.93
	03030006	(0.00	161.24	0.00
	03030007	0	22.13	85.48	0.00
Catawba		21314	1.64	0.00	0.00
	03050101	(0.00	0.00	0.0
	03050102	21314	0.00	0.00	0.0
	03050103	(1.64	0.00	0.00
Chowan		(0.00	0.00	0.00
	03010203	(0.00	0.00	0.0
	03010201	(0.00	0.00	0.00
	03010202	(0.00	0.00	0.0
	03010204	(0.00	0.00	0.0

Credits Credits Credits Credits	astal redits
	0.00
	0.00
	0.00
December December	0.00
Deficion Deficion	0.00
Little Tennessee	0.00
	0.00
11300 0.00	0.00
Description	0.00
Lumber	0.00
03040203	0.00
03040204	0.00
Neuse	0.00
Neuse 11947 82.87 1804.40	0.00
Neuse 11947 82.87 1804.40 03020201 3084 17.91 2.50 03020202 0 0.09 0.00 03020203 247 0.00 0.00 03020204 8616 64.87 1801.90 New 0 0.00 11.90 Pasquotank 0 236.61 805.78 03010205 0 236.61 805.78 Roanoke 0 0.00 0.00 03010107 0 0.00 0.00 03010102 0 0.00 0.00 03010103 0 0.00 0.00 03010104 0 0.00 0.00 03010106 0 0.00 0.00 03060101 0 0.00 0.00 03060102 0 0.00 0.00 03020101 0 0.00 0.00 03020102 6500 75.00 0.00	0.00 0.00
03020201 3084 17.91 2.50 03020202 0	
03020202	5.70 0.00
03020203	5.70
New	0.00
DS050001	0.00
Pasquotank 0 236.61 805.78 03010205 0 236.61 805.78 Roanoke 0 0.00 0.00 03010107 0 0.00 0.00 03010102 0 0.00 0.00 03010103 0 0.00 0.00 03010104 0 0.00 0.00 03010106 0 0.00 0.00 Savannah 0 0.00 0.00 03060101 0 0.00 0.00 03060102 0 0.00 0.00 Tar-Pamlico 6500 260.88 63.00 03020101 0 0.00 0.00 03020102 6500 75.00 0.00	0.00
	0.00
	20.13
03010107	20.13
03010102	0.00
03010103	0.00
03010104	0.00
	0.00
Savannah 0 0.00 0.00 03060101 0 0.00 0.00 03060102 0 0.00 0.00 Tar-Pamlico 6500 260.88 63.00 03020101 0 0.00 0.00 03020102 6500 75.00 0.00	0.00 0.00
03060101	0.00
Tar-Pamlico 6500 260.88 63.00 03020101 0 0.00 0.00 03020102 6500 75.00 0.00	0.00
Tar-Pamlico 6500 260.88 63.00 03020101 0 0.00 0.00 03020102 6500 75.00 0.00	0.00 0.00
03020101 0 0.00 0.00 03020102 6500 75.00 0.00	
03020102 6500 75.00 0.00	0.00
	0.00 0.00
	0.00
03020103 0 183.88 03.00 0.00 0.00	0.00
03020104 0 0.00 0.00	0.00

Basin	8-digit CU	Net Stream Restoration Credits	Net Riverine Restoration Credits		Net Coastal Marsh Credits
Watuaga		0	0.00	0.00	0.00
	06010103	C	0.00	0.00	0.00
White Oak		C	0.00	0.00	0.00
	03020106	C	0.00	0.00	0.00
	03030001	C	0.00	0.00	0.00
Yadkin		28389.5	5 132.57	0.00	0.00
	03040101	1294	31.70	0.00	0.00
	03040102	3952.5	69.58	0.00	0.00
	03040103	3000	13.10	0.00	0.00
	03040104	(16.68	0.00	0.00
	03040105	9476	5 1.51	0.00	0.00
	03040201	10667	7 0.00	0.00	0.00
	03040202	(0.00	0.00	0.00
Grand Tot	al	94599.5	895.73	5044.39	89.76

^{*}Net Assets = Total Assets - ILF mitigation debits - EEP MOA mitigation debits. ILF Mitigation debits were assumed equal all NCWRP Assets for the purposes of this calculation. This is a conservative estimate in that there are actually some surplus assets remaining from the WRP ILF restoration sites.

End of Table 4

^{**}The negative balance (-800lf) will be offset by EEP's 2004 RFP's that are currently under review.

Preservation Assets Available

Tables 5a and Table 5b list preservation assets available by eco-region, river basin and cataloging unit. Table 5a represents preservation assets that became available this quarter. Table 5b is a listing of the cumulative amount of preservation assets. These preservation project assets are the sum of assets available from sites that have been funded, have an option to purchase, and have been favorably reviewed by the USACE.

Table 5a: Preservation Assets that Became Available this Quarter

Eco-region	River basin	Cataloging Unit	Site Name	Wetland Assets (ac)	Stream Assets (ft)
Northern Outer Coastal Plain					
Southern Outer Coastal Plain				0	0
Northern Inner Coastal Plain				0	0
Southern Inner Coastal Plain				0	0
Central Piedmont	Cape Fear	03030003	White Pines Newton (corrected)	0	1,000
Southern Piedmont				0	0
Northern Mountains	French Broad	06010108	Little Tablerock	0	24,491
Southern Mountains				0	0

End of Table 5a

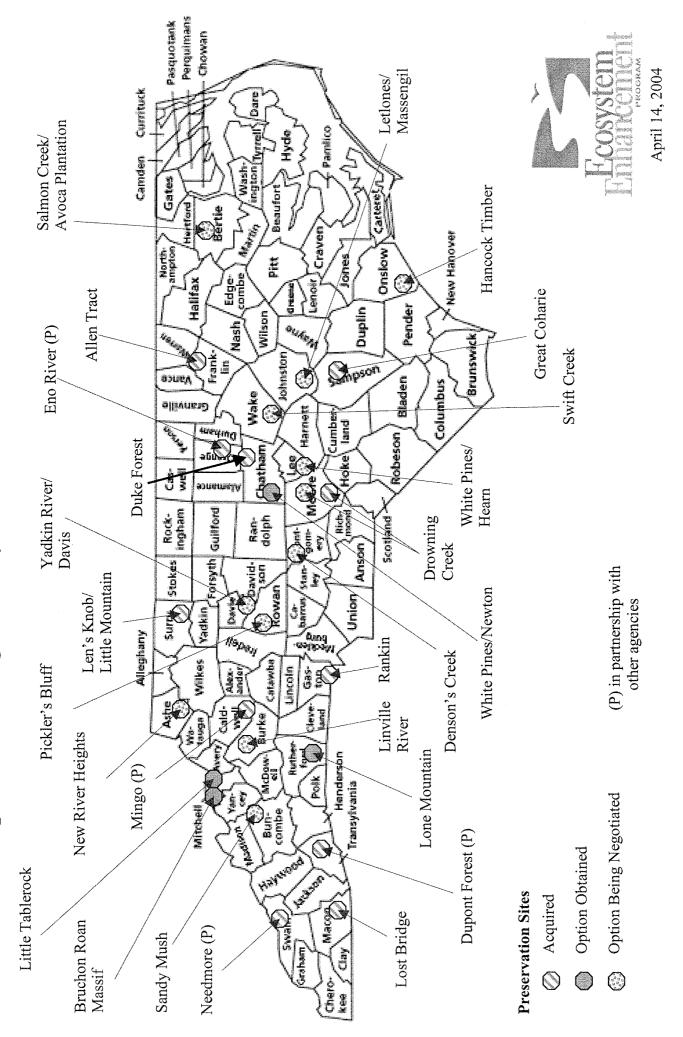
Table 5b Cumulative Preservation Assets

Eco-region	River basin	Cataloging Unit	Site Name	Wetland Assets (ac)	Stream Assets (ft)
Northern Outer Coastal Plain			Roquist Pocosin	267	0
Southern Outer Coastal Plain				0	0
Northern Inner Coastal Plain				0	0
Southern Inner Coastal Plain	Cape Fear	03030006	Great Coharrie Creek	4,500	309,319
Central Piedmont	Cape Fear	03030002	Eno River/Poplar Ridge	0	57,026
			Eno Wilderness		
			Haw River State Park /Phillips		
	Yadkin	03030003	White Pines Newton		
		03040101	Len's Knob/Little Mountain		
Southern Piedmont	Lumber	03040203	Drowning Creek/ Camp Mackall	575	15,679
Northern Mountains	French Broad Yadkin	06010108	Roan Massif/ Bruchon; Little Tablerock; Mingo;	0	103,041
Southern Mountains	Little Tennessee	06010202	Needmore Tract	10	96,446 (no debits)

End of Table 5b

On the following page is a map showing all high quality preservation sites that the EEP has acquired, has an option obtained, and has an option being negotiated.

Map of EEP's High Qualtiy Preservation Sites



SECTION 3: PROJECT ACCOUNTING

Section 3 reconciles the remaining assets available for use within an eco-region, river basin or cataloging unit by looking at mitigation projects that have been accepted against what is available.

Table 6 shows projects that have been debited by USACE permit Action ID. All of the sites listed are preservation sites unless indicated.

<u>Table 6</u> EEP Acceptance of Mitigation Responsibility January 1 through March 31, 2004

USACE Notified that EEP has the mitigation	USACE Action ID	TIP Project, County, Impacts	Site Identified – Associated Assets	
February 2004				
20 th	-	R-2911A Iredell, 0.27 ac. wetland impacts, 1,817 stream impacts.	Swift Creek Site – 2.7 ac. Little Mountain/Len's Knob – 13,172 ft. Eno River State Park/Wilderness – 4,998 ft.	
March 2004				
3 rd	<u>-</u>	U-620, Cumberland, 1.5 ac. wetland impacts, 1,153 ft. stream impacts.	Great Coharie Site – 15.0 ac. Great Coharie Site – 11,530 ft.	
11 th	199701755	U-2734, New Hanover, 1.45 ac. wetland impacts, 902 ft. stream impacts.	Hancock Timber Site – 14.5 ac. Hancock Timber Site – 9,020 ft.	
23 rd	-	B-3710, Watauga, 167 ft. stream impacts.	Mingo Tract – 1,670 ft.	
23 rd	-	R-2813C, Buncombe, 0.241 ac. wetland impacts.	Needmore Tract – 2.1 ac.	

End of Table 6

During this quarter no restoration sites have been used for mitigation; therefore, **all available assets listed in Table 4 remain**. Table 7 below shows net remaining mitigation from preservation projects that were used in the second quarter and lists the *remaining assets* for the eco-region.

Table 7: Available Preservation Assets After Debits

Eco-region	River basin	Cataloging Unit	Site Name	Wetland Assets (ac)	Stream Assets (ft)
Northern Outer Coastal Plain	Roanoke	03010107	Roquist Pocosin	259.6	0
Southern Outer Coastal Plain	Cape Fear	03030007	Hancock Timber Highway 50	907.5	45,100
Northern Inner Coastal Plain				0	0
Southern Inner Coastal Plain	Cape Fear	03030006	Great Coharie Creek (corrected)	3,985	154,660
Central Piedmont	Cape Fear	03030002	-Eno River/Poplar Ridge -Haw River State Park / Phillips -Len's Knob/Little Mountain -White Pines Newton	0	121
Southern Piedmont	Lumber	03040203	Drowning Creek/ Camp Mackall	575	15,679
Northern Mountains	French Broad Yadkin	06010108	-Roan Massif/ Bruchon; -Mingo	0	101,371
Southern Mountains	Little Tennessee	06010202	Needmore Tract	7.9	96,446

End of Table 7

Ecosystem Enhancement Program (EEP)

MISSION

The mission of the Ecosystem Enhancement Program is to restore, enhance, preserve and protect the functions associated with wetlands, streams and riparian areas including but not limited to those necessary for the restoration, maintenance and protection of water quality and riparian habitats throughout North Carolina.

VISION

The Ecosystem Enhancement Program is a model organization that protects, enhances, and restores the ecological function of North Carolina's natural resources through advance mitigation.

PURPOSE

The purpose of the Ecosystem Enhancement Program is to provide a comprehensive, natural resource enhancement program that identifies ecosystem needs at the local watershed level. The EEP further preserves, enhances, and restores ecological functions within the target watersheds while addressing impacts from anticipated NCDOT transportation projects.